



# **McCHORD PIPELINE CO.**

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## **LIQUIDS CONTROL CENTER AND BASIC PIPELINE OPERATION**

CCOPS

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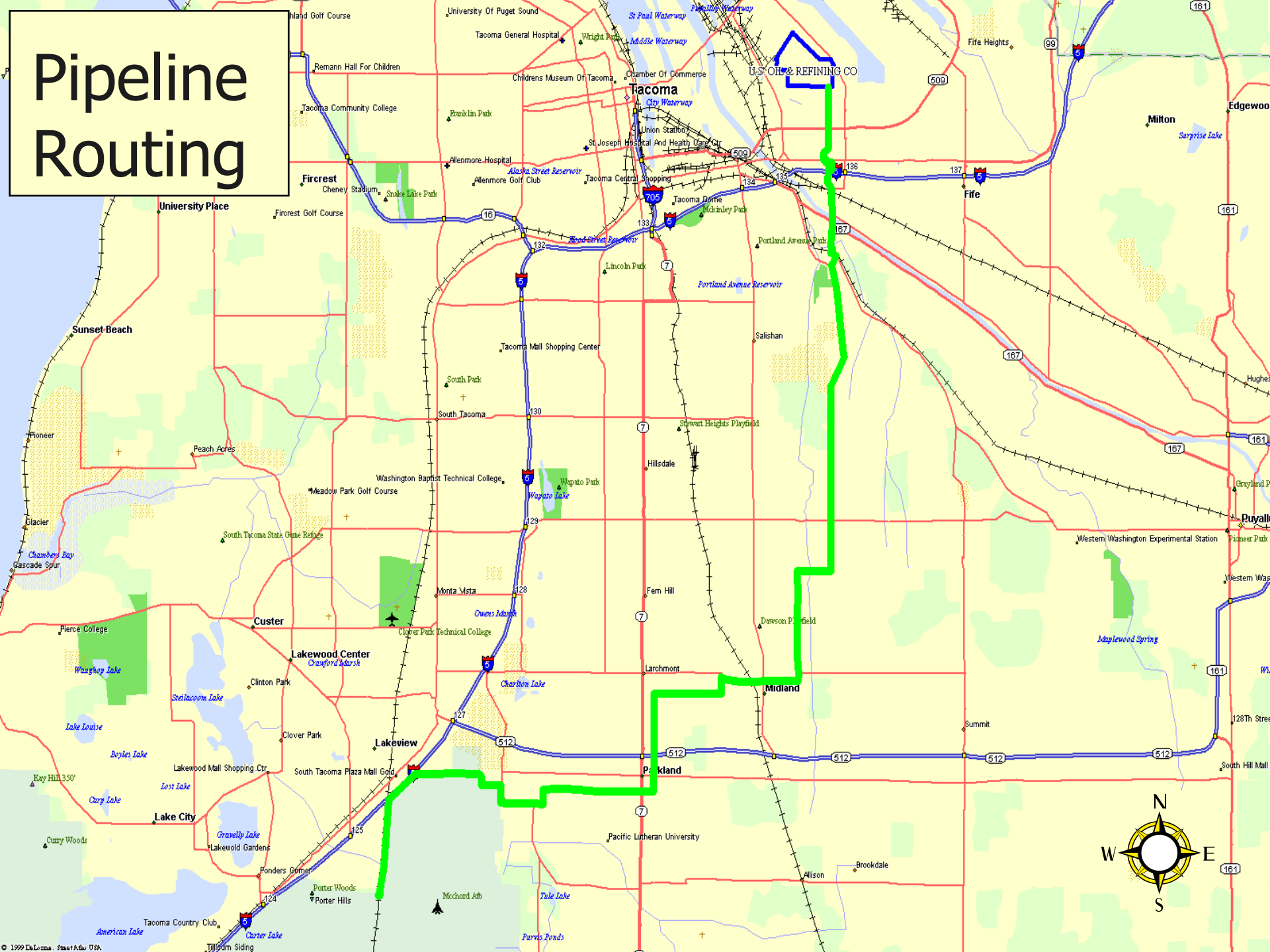
# Pipeline Function

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- Transfers Jet A to JBLM McChord Field
  - 14.25 Mile Length
  - Runs from Refinery Pump Station to Fuels Storage
  - 6" Diameter Line
  - No Breakout Tanks or Branch Lines



# Pipeline Routing





# Basic Operations

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- Transfers are typically 3X per week.
- Normal Transfer rate: 450 GPM @450 psig. (The typical operating pressure is 30 psi at the MAFB.)
- Transfer State: Leak detection is determined by flow differential and pressure drop.
- Static State: The line is always packed with jet fuel. Leak detection is determined by pressure drop.

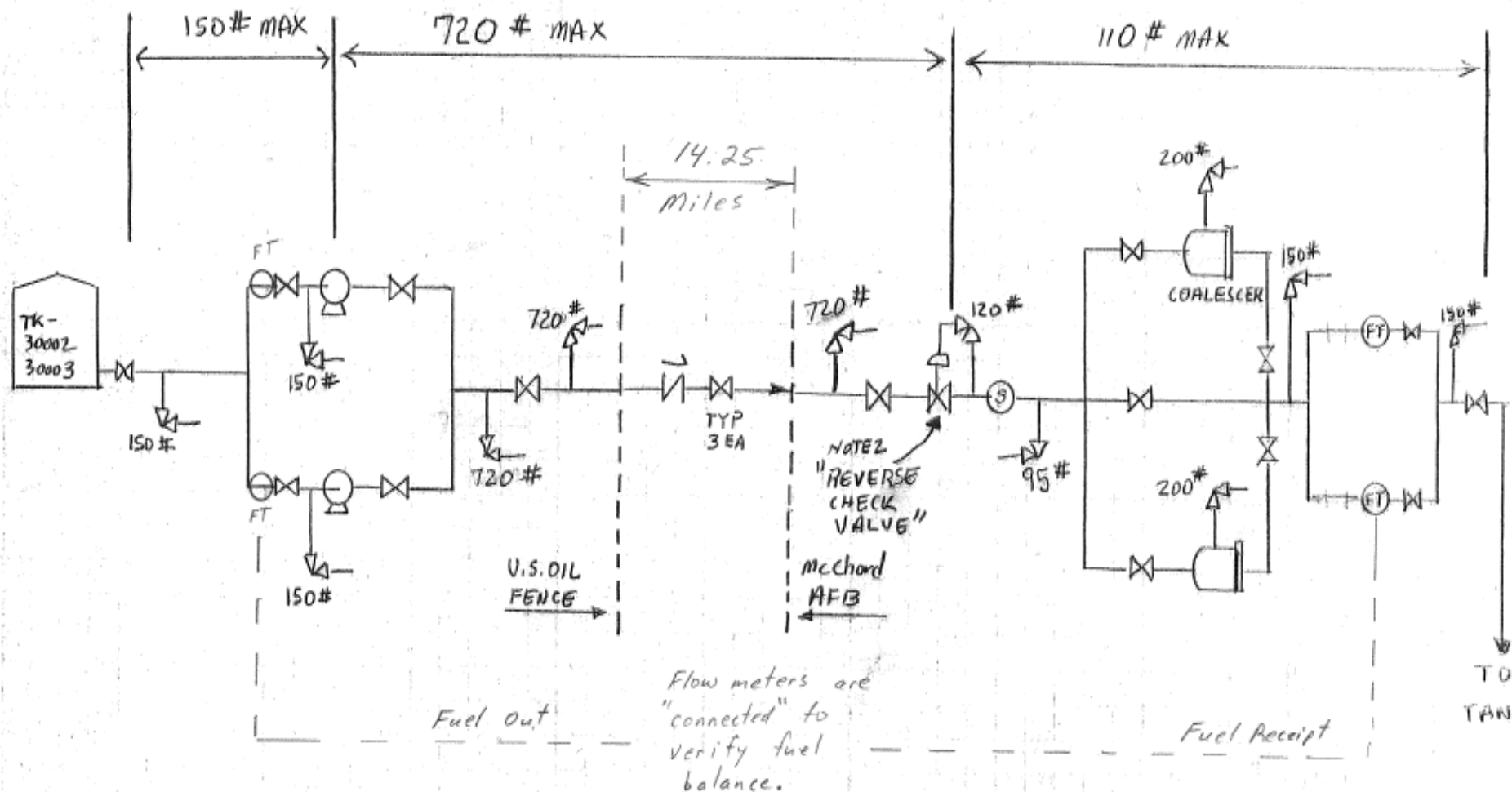


# Basic Operating Team

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- Team of 4 Individuals:
- Lead Operator (Manages control center and alarms.)
- Outside Operator (Responsible for operating the pump station.)
- JBLM Fuels Depot (Manages fuel receipt and fuel tanks.)
- Pipeline Inspector (Responsible for ROW Inspection and Security.)

# Basic Schematic





WHEEL  
FIRE  
EXTINGUISHER

OPEN

NOV 9 2012

# Lead Operator View

## MCCHORD OVERVIEW

### COMMON PIPELINE

|           |                          |       |   |
|-----------|--------------------------|-------|---|
| FQI-1436  | JET FLOW DIFFERENCE      | 245.9 | N |
| PI-1407A  | LINE PRESSURE LOSS       | -4.9  | N |
| FI-1420A  | USO FLOW RATE            | 0.0   | L |
| FQR-1420  | TOTALIZER RESET          | ON    | N |
| A AI-1437 | JET GRAVITY              | 42.3  | N |
| FQI-1438  | 15 MIN GAL DIFF USOR-AFB | -0.1  | N |



### USO

|           |                      |        |   |
|-----------|----------------------|--------|---|
| PI-1407   | USO P/L PRESS.       | 304.3  | N |
| SDH-1403  | P-1401A SHUTDOWN     | DOWN   | A |
| SDH-1404  | P-1401B SHUTDOWN     | DOWN   | A |
| PAL-1405  | USO P/L LOW PRESS.   | NORMAL | N |
| PAH-1406  | USO P/L HI PRESS.    | NORMAL | N |
| XA-1413   | P-1401A MB.          | NORMAL | N |
| XA-1414   | P-1401B MB.          | NORMAL | N |
| XA-1415   | V-1401 ADDITIVE      | NORMAL | N |
| XA-1416   | V-1402 ADDITIVE      | NORMAL | N |
| XA-1417   | V-1403 ADDITIVE      | NORMAL | N |
| PAH-1418  | P-1401A DISCH.       | NORMAL | N |
| PAH-1419  | P-1401B DISCH.       | NORMAL | N |
| TI-1423   | USO JET TEMP.        | 91.0   | N |
| FQI-1420  | USO TOTAL            | 0.0    | N |
| FQI-1420C | USO CORR. TOTAL      | 0.0    | N |
| PI-1407B  | USOR LINE PRES.- LOW | NORMAL | N |

### AFB

|           |                   |        |   |
|-----------|-------------------|--------|---|
| PI-1425   | AFB METER PRESS.  | 1.7    | N |
| PI-1426   | AFB P/L PRESS.    | 348.8  | N |
| FQI-1433C | AFB CORR. TOTAL   | 241.0  | N |
| TI-1424   | AFB JET TEMP.     | 89.8   | N |
| LAH-1430  | AFB SUMP HI       | NORMAL | N |
| LAHH-1431 | AFB SUMP HI HI    | NORMAL | N |
| CT-1432   | AFB COMMUNICATION | NORMAL | N |

# Lead Operator View

